

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---|------------------|---------|---------------------|
| S1 | 600 | (359/580).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2002/12/05 11:50 |
| S2 | 507 | (372/21).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2002/12/05 09:02 |
| S3 | 232 | (359/237).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2002/12/05 09:07 |
| S4 | 2745 | ((359/237).CCLS.) or ((359/108).CCLS.) or ((359/107).CCLS.) or ((359/244).CCLS.) or ((359/240).CCLS.) or ((359/580).CCLS.) or ((359/582).CCLS.) or ((359/577).CCLS.) or ((372/8).CCLS.) or ((372/21).CCLS.) or ((708/191).CCLS.) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 09:08 |
| S5 | 420 | (((359/237).CCLS.) or ((359/108).CCLS.) or ((359/107).CCLS.) or ((359/244).CCLS.) or ((359/240).CCLS.) or ((359/580).CCLS.) or ((359/582).CCLS.) or ((359/577).CCLS.) or ((372/8).CCLS.) or ((372/21).CCLS.) or ((708/191).CCLS.)) and ((optical or hard) with limit\$2) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 13:37 |
| S6 | 457 | (((359/237).CCLS.) or ((359/108).CCLS.) or ((359/107).CCLS.) or ((359/244).CCLS.) or ((359/240).CCLS.) or ((359/580).CCLS.) or ((359/582).CCLS.) or ((359/577).CCLS.) or ((372/8).CCLS.) or ((372/21).CCLS.) or ((708/191).CCLS.)) and ((optical or hard) with limit\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2003/06/17 16:56 |
| S7 | 159 | (359/108).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2002/12/05 10:17 |
| S8 | 433 | (359/107).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2002/12/05 10:37 |
| S9 | 159 | (359/244).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2002/12/05 10:59 |

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|-----|-----|--|---|----|-----|---------------------|
| S10 | 186 | (359/240).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2002/12/05 11:29 |
| S11 | 17 | ((359/580).CCLS.) and (kerr or non?linear) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 11:50 |
| S12 | 18 | ((359/580).CCLS.) and (kerr or non?linear\$) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 12:19 |
| S13 | 105 | (359/582).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2002/12/05 11:54 |
| S14 | 227 | (359/577).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2002/12/05 11:57 |
| S15 | 161 | (372/8).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2002/12/05 12:10 |
| S16 | 242 | ((372/21).CCLS.) and (kerr or non?linear\$) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 12:19 |
| S17 | 151 | (708/191).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2002/12/05 13:29 |
| S18 | 2 | ("4811258").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2002/12/05 13:29 |
| S19 | 991 | ((optical or hard) with limit\$2) and (kerr) and (filter or grating or film) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 13:39 |

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|-----|------|--|--|----|----|---------------------|
| S20 | 0 | ((optical or hard) with limit\$2) and (kerr with non?linear\$ with susceptibility) and (filter or grating or film) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 13:41 |
| S21 | 69 | ((optical or hard) with limit\$2) and (kerr with (non?linear\$ or susceptibility)) and (filter or grating or film) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2003/06/17 16:59 |
| S22 | 4191 | (optical with (comput\$3 or gate)) and (non?linear\$ or susceptib\$) and (layer or film or grating or filter) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 14:43 |
| S23 | 237 | ((optical with (comput\$3 or gate)) and (non?linear\$ or susceptib\$) and (layer or film or grating or filter)) and kerr | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 14:01 |
| S24 | 4 | (optical near logic near device) and kerr and ((optical or hard) with limiter) and layer | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2004/12/01 09:10 |
| S25 | 28 | kerr and ((optical or hard) with limiter) and layer | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 15:10 |
| S26 | 336 | brzozowski | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 15:11 |
| S27 | 7 | brzozowski and sargent | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 15:11 |
| S28 | 43 | brzozowski and johnson | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 15:12 |
| S29 | 7 | brzozowski and johnson and sargent | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 16:13 |
| S30 | 1 | (non?linear with bragg with reflect\$) and kerr | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 16:15 |

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|-----|------|--|---|----|----|---------------------|
| S31 | 7 | (non?linear same bragg same reflect\$) and kerr | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 16:27 |
| S32 | 8 | (non?linear\$ same bragg same reflect\$) and kerr | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 16:31 |
| S33 | 7 | (non?linear\$ with reflect\$) and (bragg with grating) and kerr | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 16:35 |
| S34 | 5 | periodic with structure with kerr | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 18:52 |
| S35 | 123 | opposite with kerr | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 18:52 |
| S36 | 1 | (opposite with kerr) and limiter | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 18:56 |
| S37 | 1892 | optical with kerr with effect | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 18:56 |
| S38 | 605 | (optical with kerr with effect) and (logic or gate or comput\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 18:57 |
| S39 | 233 | ((optical with kerr with effect) and (logic or gate or comput\$3)) and ((optical or hard) with limit\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2002/12/05 18:58 |
| S40 | 503 | (((359/237).CCLS.) or ((359/108).CCLS.) or ((359/107).CCLS.) or ((359/244).CCLS.) or ((359/240).CCLS.) or ((359/580).CCLS.) or ((359/582).CCLS.) or ((359/577).CCLS.) or ((372/8).CCLS.) or ((372/21).CCLS.) or ((708/191).CCLS.)) and ((optical or hard) with limit\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2003/06/17 16:57 |
| S41 | 76 | ((optical or hard) with limit\$2) and (kerr with (non?linear\$ or susceptibility)) and (filter or grating or film) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2003/06/17 17:07 |

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| S42 | 113 | ((optic\$4 or hard) with limit\$3) and (kerr with (non?linear\$ or nonlinear or susceptib\$)) and absor\$ | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2003/06/17 17:08 |
| S43 | 8 | ((optic\$4 or hard) with limit\$3) and (kerr with (non?linear\$ or nonlinear or susceptib\$)) and non?absor\$ | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2003/06/17 18:24 |
| S44 | 462 | ((optic\$4 or hard) with limit\$3) and (kerr with (grating or period\$2 or layer or film)) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2003/06/17 18:28 |
| S45 | 12 | (((optic\$4 or hard) with limit\$3) and (kerr with (grating or period\$2 or layer or film))) and (alternat\$ with coefficient) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2003/06/17 19:06 |
| S46 | 46 | (((optic\$4 or hard) with limit\$3) and (kerr with (grating or period\$2 or layer or film))) and logic | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2003/06/17 19:06 |
| S47 | 392 | (359/237).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2004/11/30 16:40 |
| S48 | 625 | (((359/237).CCLS.) or ((359/108).CCLS.) or ((359/107).CCLS.) or ((359/244).CCLS.) or ((359/240).CCLS.) or ((359/580).CCLS.) or ((359/582).CCLS.) or ((359/577).CCLS.) or ((372/8).CCLS.) or ((372/21).CCLS.) or ((708/191).CCLS.)) and ((optical or hard) with limit\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2004/11/30 16:40 |
| S49 | 193 | (359/108).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2004/11/30 16:40 |
| S50 | 471 | (359/107).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2004/11/30 16:40 |
| S51 | 201 | (359/244).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2004/11/30 16:40 |

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| S52 | 251 | (359/240).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2004/11/30 16:40 |
| S53 | 28 | ((359/580).CCLS.) and (kerr or non?linear\$) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2004/11/30 16:40 |
| S54 | 145 | (359/582).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2004/11/30 16:40 |
| S55 | 346 | (359/577).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2004/11/30 16:40 |
| S56 | 192 | (372/8).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2004/11/30 16:40 |
| S57 | 291 | ((372/21).CCLS.) and (kerr or non?linear\$) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2004/11/30 16:40 |
| S58 | 174 | (708/191).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2004/11/30 16:40 |
| S59 | 625 | ((359/237).CCLS.) or ((359/108).CCLS.) or ((359/107).CCLS.) or ((359/244).CCLS.) or ((359/240).CCLS.) or ((359/580).CCLS.) or ((359/582).CCLS.) or ((359/577).CCLS.) or ((372/8).CCLS.) or ((372/21).CCLS.) or ((708/191).CCLS.)) and ((optical or hard) with limit\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2004/11/30 16:41 |
| S60 | 46 | (optic\$4l near3 logic\$) and (kerr with refract\$ with ind\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2004/12/01 09:10 |
| S61 | 47 | (optic\$4 near3 logic\$) and (kerr with refract\$ with ind\$4) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2005/03/01 08:46 |

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| S62 | 59 | (optic\$4 near3 logic\$) and (kerr same (refract\$ with ind\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2004/12/01 10:05 |
| S63 | 25 | (optic\$4 near3 logic\$) and transmi\$ and (non?absor\$ or nonabsor) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2004/12/01 10:15 |
| S64 | 604 | (optic\$4 near3 logic\$) and transmi\$ and (optic\$4 near4 limit\$) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2004/12/01 10:15 |
| S65 | 77 | S64 and kerr | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2004/12/01 10:16 |
| S66 | 347 | (359/237).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2005/02/28 18:42 |
| S67 | 152 | (359/108).CCLS | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2005/02/28 18:42 |
| S68 | 190 | (359/244).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2005/02/28 18:42 |
| S69 | 28 | ((359/580).CCLS.) and (kerr or non?linear\$) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2005/02/28 18:42 |
| S70 | 258 | (359/107).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2005/02/28 18:42 |
| S71 | 193 | (359/240).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2005/02/28 18:42 |

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| S72 | 643 | ((359/237).CCLS.) or ((359/108).CCLS.) or ((359/107).CCLS.) or ((359/244).CCLS.) or ((359/240).CCLS.) or ((359/580).CCLS.) or ((359/582).CCLS.) or ((359/577).CCLS.) or ((372/8).CCLS.) or ((372/21).CCLS.) or ((708/191).CCLS.)) and ((optical or hard) with limit\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2005/02/28 18:42 |
| S73 | 140 | (359/582).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2005/02/28 18:42 |
| S74 | 147 | (372/8).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2005/02/28 18:43 |
| S75 | 176 | (708/191).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2005/02/28 18:43 |
| S76 | 299 | ((372/21).CCLS.) and (kerr or non?linear\$) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2005/02/28 18:43 |
| S77 | 339 | (359/577).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB | OR | OFF | 2005/02/28 18:43 |
| S78 | 643 | ((359/237).CCLS.) or ((359/108).CCLS.) or ((359/107).CCLS.) or ((359/244).CCLS.) or ((359/240).CCLS.) or ((359/580).CCLS.) or ((359/582).CCLS.) or ((359/577).CCLS.) or ((372/8).CCLS.) or ((372/21).CCLS.) or ((708/191).CCLS.)) and ((optical or hard) with limit\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2005/02/28 18:43 |
| S79 | 152 | logic\$ and (kerr same (refract\$ near4 ind\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB | OR | ON | 2005/03/01 11:12 |